

F1
wherein the solid electrolyte has a cup-shape, the heater is provided within the cup-shaped solid electrolyte, a clearance is formed between the heater and the internal electrode, said clearance being 0.1 mm or more.

F2 Sub 5
15. (Amended) An oxygen concentration detector according to claim 12, wherein said material having a high emissivity has an emissivity of ~~0.3~~ ^{than 0.6} or more.

Claim 16, line 5, change "said surface" to --a surface--.

F3
17. (Amended) An oxygen concentration detector according to claim 16, wherein said material [having a high emissivity] has an emissivity of 0.3 or more.

F3
18. (Amended) An oxygen concentration detector according to claim 1, wherein the thickness of the high-emissivity layer is [in the range of 5-20 μm] 5 μm or more.

Kindly add the following new claim:

F4
--20. An oxygen concentration detector according to claim 18, wherein the thickness of the high-emissivity layer is in the range of 10-20 μm --